

# Blue-White®



## The Features of M1 Make it Possible to Standardize on One Chemical Feed Pump

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**Water treatment is technology-driven** and heavily regulated. But that doesn't mean every aspect needs to be complicated or overly costly.

For wastewater plants requiring metering pumps to dose treatment chemicals for processes such as disinfection, filtration, clarification, coagulation and flocculation, Blue-White offers a solution that allows operators to standardize operations to one chemical feed solution — the FLEXFLO M1 Peristaltic Dosing Pump. The self-priming M1 delivers smooth, consistent and precise chemical dosing with no danger of vapor lock or loss of prime. It's the solution to an industry need, according to Blue-White's Director of Engineering, Patrick Murphy.

"The concept for M1 began when we realized that many municipalities were using our A-100N pumps to meet their chemical feed requirements, a pump that is intended for industrial use not municipal," says Murphy. "We then reached out and listened to our customers for feedback regarding what they wanted in a feed pump. Requirements included NEMA 4X rating, relay alarms, remote/stop capabilities, NSF 61 rating and LCD cover to protect from chemical residue. We also took what we learned from our motor development projects to incorporate our energy efficient brushless DC motor as well. This gave us the power we required while requiring less energy to drive the pump."

The M1 has 4-20mA SCADA inputs and offers a feed output range of .0001 to 5.6 gph, pressures to 100 psi and a high energy efficiency rating. The pump achieves a 10,000-to-1 turndown ratio and is powered by efficient BLDC motor technology. According to Murphy, the pump is

typically utilized at smaller municipalities or small well sites. It fits across multiple applications because it has different tubes that make it versatile enough to work with many typical water treatment chemicals, polymers and off-gassing chemicals.

"It is a simple-to-operate pump with a broad turndown ratio. It has simplified ordering because one tube will have a wide range of flow rates that it can operate in," says Murphy. "Gone are the days of having several different tube assemblies to cover all the ranges of flow rate requirements."

A sealed enclosure and a display shield protect the pump's easy to operate controls from chemical spills and splashes. In addition, the enhanced Tube Failure Detection System (TFD+) senses tube rupture with no false triggering.

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[www.blue-white.com](http://www.blue-white.com) • 714-893-8529

5300 Business Dr., Huntington Beach, CA 92649 USA • [info@blue-white.com](mailto:info@blue-white.com)

